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10/603,282	06/25/2003	Nathalie Bamas-Jacques	FRAV2002/0013 US NP	4452
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SANOFI-AVE	NTIS U.S. LLC	SAIDHA, TEKCHAND		
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			1652	
			NOTIFICATION DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
	10/603,282	BAMAS-JACQUES ET AL.		
Office Action Summary	Examiner	Art Unit		
	Tekchand Saidha	1652		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 14 No.	action is non-final. ce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 2-11,13,15-17,19-26, 29-35 and 40-42 4a) Of the above claim(s) 2-4,17,19-26,29-35 and 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 5-11,13,15 and 16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	nd 40-42 is/are withdrawn from c			
Application Papers				
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 15 December 2003 is/ar Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examiner	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/9/2004.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte		

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DETAILED ACTION

1. The Art Unit and the Examiner for this application are changed. Please make a note of it. In presenting the claims, especially if a claim is canceled, Applicants are advised not to rewrite the canceled claim.

2. Election

Applicant's election of Group XI (claims 5-8, 11, 15-16 & 41), drawn to nucleic acid variants with G828A & C658T, with traverse is acknowledged. Claim 41 is regrouped with groups IV, V or VI as being drawn to a variant polypeptide (see explanation below).

Applicants respectfully traverse the restriction requirement with regards to Groups IX, X, XI, XV, XVI and XVII for the reasons stated below.

For a Restriction Requirement to be proper, "there are two criteria for restriction among patentably distinct inventions: (1) The inventions must be independent...or distinct as claimed...and (2) There must be a serious burden on the examiner if restriction is not required." (MPEP §803).

According to the interpretation provided in MPEP §802.01, the term "independent" means that "there is no disclosed relationship between the two or more subjects disclosed, that is, they are unconnected in design, operation or effect...". The term "distinct" is defined in MPEP §801.02 as meaning that "two or more subjects as disclosed are related.., but are capable of separate manufacture, use or sale as claimed, and ARE PATENTABLE (novel and unobvious) OVER EACH OTHER..." The above cited language of 35 USC §121 is clear in that the requirement to restrict an application to one of the inventions disclosed therein is proper only if the disclosed inventions are both independent and distinct.

While Applicants take no position on the patentable distinctness of Groups IX, X, XI, XV, XVI and XVII, Applicants submit that the claims of Group IX, X, X1, XV, XVI and XVII are not independent and are so linked as to form a single general inventive concept. In particular, Group XI is drawn to a nucleic acid variant with G828A and C658T, while Group IX is drawn to the sequence but having the nucleic acid variant

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C658T and Group X is drawn to the same sequence but having the nucleic acid variant G828A.

Moreover, Applicants submit that a search of Groups IX, X and XI would not be an undue burden on the Examiner. A search of Group XI would necessarily include a search of the nucleic acid in Groups IX and X since this is the same nucleic acid except for the C658T and G828A substitutions. Therefore, Applicants maintain that the claims of Groups IX, X and XI should be examined together in the interest of compact prosecution of the instant application.

Further, once the search is performed for Groups IX, X and XI the search would necessarily cover subject matter claims of Groups XV, XVI and XVII. Claims of Groups IX, X, X1 are drawn to nucleic acid variants of the same sequence while Groups XV, XVI and XVII are drawn to the method wherein a Streptomyces strain comprises the afore-mentioned nucleic acid variants. A search of the nucleic acids of Groups IX, X and XI would necessarily include a search of using the afore-mentioned variants to attain a bacterial strain. It is respectfully submitted that it would not be an undue burden to include the nucleic acid variants and the methods of using said nucleic acid variants at the same time.

For the above reasons, Applicants respectfully request the Examiner to reconsider and withdraw the Restriction Requirement with regards to Groups IX, X, XI, XV, XVI and XVII.

Applicants' arguments are considered and found to be partly persuasive with respect to combining Groups IX, X & XI, drawn to the variant nucleic acid G828A & C658T. According these groups representing claims 5-11, 13 & 15-16, drawn to nucleic acid mutants G828A & C658T, vector & host cell will be considered in this examination.

<u>Claim 41</u> is a variant polypeptide (not the variant encoded by nucleic acid variant G828A & C658T) and is therefore regrouped with group IV, V or VI.

However, the inventions of groups XV, XVI and XVII, drawn to method claims which do not specifically use the nucleic acid mutants of G828A & C658T are distinct independent inventions and are not so linked as to form a single general inventive concept as previously explained. Searching the specific nucleic acid mutants will not

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necessarily lead to art to the method claims of groups XV, XVI & XVIII. The search is not co-extensive and is therefore burdensome to combine the various groups as argued by the Applicants. Searching the inventions of Groups IX, X, XI, XV, XVI and XVII together would impose serious search burden.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

Because of the regrouping of claim 41, the LOU determination is not made final yet.

3. Claims 5-11, 13 & 15-16, drawn to nucleic acid mutants G828A & C658T, vector & host cell are under consideration in this examination.

4. Claims withdrawn:

Claims 2-4, 17, 19-26, 29-35 & 40-42 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

5. *Priority*

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in France on 6/28/2002. It is noted, however, that applicant has <u>not</u> filed a certified copy of the foreign application as required by 35 U.S.C. 119(b).

6. Sequence Rules

The instant specification, Figure &, present nucleic acid/amino acid sequences that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2), but fails to comply with the requirements. According to 37 CFR 1.821-825, every disclosed amino acid sequence of four or more residues or 10 or more nucleotides must be identified by a SEQ ID NO. The amino acid

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or nucleic acid sequences presented do not have SEQ ID NOs. In order to comply with the sequence rules Applicants must identify these sequences by providing SEQ ID NO:, and where required provide a new version of the sequence listing and disk.

Applicant must submit a CRF copy and paper copy of the Sequence Listing, a statement that the content of the paper and computer readable copies are the same and where applicable include no new matter as required by 37 C.F.R. j 1.821(e) or 1.821(9 or 1.821(g) or 1.825(d), as well as an amendment directing its entry into the specification.

<u>Note</u>: If the nucleic acid and the encoded amino acid sequences of Figure 7 are already present in the sequence listing filed 12/15/2003, Applicants may amend the brief description to drawings (or legend to Figure 7) by the inserting the appropriate sequence identifier numbers.

7. Specification

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

8. Claim Objections

Claims 5-8 and 13 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The claim(s) depend from claim(s) reciting non-elected subjected matter. Appropriate correction is required.

Claim 16 recite – ATCC numbers, viz., ATCC12019, ATCC27455, ATCC15297 and ATCC 11415, which is an improper incorporation by reference.

9. Claim Rejections - 35 USC § 112 (first paragraph)

Written Description

Claims 5-8, 11, 15-16 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as

to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

These claims are drawn to variants of nucleic acid(s), which (i) either directly or indirectly refer to specific mutant positions with no <u>reference sequence</u> and (ii) and therefore no defined structure and (iii) with no defined function or activity.

The specification discloses the DNA sequence of SEQ ID No. 1 encoding an N-methyltransferase enzyme of SEQ ID NO: 2. However, without a reference sequence for the variants and the assigned function, the claims lack the required written description. Therefore, one skilled in the art cannot reasonably conclude that the applicant had possession of the claimed invention at the time the instant application was filed.

10. Claim Rejections - 35 USC § 112 (second paragraph)

Claim 5-11, 13 & 15-16 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

These claims are drawn to variants of nucleic acid(s), which either directly or indirectly refer to specific mutant substitutions with no <u>reference sequence</u>. The claims are unclear for lack of the corresponding reference sequence.

- 11. No claim is allowed.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tekchand Saidha whose telephone number is (571) 272 0940. The examiner can normally be reached between 8.30 am 5.00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nashaat T. Nashed can be reached on (571) 272 0934. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tekchand Saidha/ Primary Examiner, Art Unit 1652 Recombinant Enzymes, 02A65 Remsen Bld. 400 Dulany Street, Alexandria, VA 22314 Telephone: (571) 272-0940 January 14, 2009